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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,531	11/13/2003	Chin-Lin Liu	MXIC-P920186	2193
7590 05/13/2004 Kenton R. Mullins		EXAMINE		INER
Stout, Uxa, Bu Suite 300	yan & Mullins, LLP		KENNEDY, JI	ENNIFER M
4 Venture			ART UNIT	PAPER NUMBER
	2618		2812 DATE MAILED: 05/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Action Summary	10/714,531	LIU ET AL.					
	Since Action Summary	Examiner	Art Unit	<del></del>				
	The MAILING DATE of the	Jennifer M. Kennedy	2812					
	The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with	the correspondence address	<del></del>				
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any							
	Status							
	1) Responsive to communication(s) filed on <u>08 Apr</u>	ril 2004						
. }								
	2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
1	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,	11, 400 0.6. 213.					
ŀ	4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.			• :				
	4a) Of the above claim(s) is/are withdrawr	from consideration		*				
	5) Claim(s) is/are allowed.	i irom consideration.						
	6)☐ Claim(s) is/are rejected.							
	7) Claim(s) is/are objected to.							
8) Claim(s) 1-25 are subject to restriction and/or election requirement.								
1	Application Papers							
	9) The specification is objected to by the Examiner.							
-	10) The drawing(s) filed on is/are: a) ☐ accept	ted or b) Objected to by	tha Evamina					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
F	Priority under 35 U.S.C. § 119	· · · · · · · · · · · · · · · · · · ·						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.								
	3. Copies of the certified copies of the priority	documents have been rec	eived in this National Stage					
	application from the International Bureau (F	CT Rule 17.2(a))						
	* See the attached detailed Office action for a list of t	he certified copies not reco	eived.					
A 4	tashmout(a)							
	tachment(s)  Notice of References Cited (PTO-892)			•				
2)	☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma	ary (PTO-413)					
3)	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inform 6) Other:	al Patent Application (PTO-152)	•				
	Patent and Trademark Office DL-326 (Rev. 1-04)							

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## DETAILED ACTION

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-13, 16-19, 22 drawn to the method of making a semiconductor device, classified in class 438, subclass 3+.
- II. Claims 14-15, 20-21, 23-25, drawn to a semiconductor device, classified in class 257, subclass 295+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)).

A "product-by-process" claim is one in which the product is defined at least in part in terms of the method or process by which it is made. *Atlantic Thermoplastics Co. Inc. v. Faytex Corp.*, 23 USPQ2d 1481, 1488 (Fed. Cir 1992). Although it is noted that claim(s) 14-15, 20-21, and 23-25 is/are product-by-process claims, product-by-process claims are directed to the product no matter how actually made. *In re Taylor*, 149 USPQ 615, 617 (CCPA 1966). Consequently, it is the patentability of the final product, and not the patentability of the process, that must be determined in a product-by-process claim. *In re Thorpe*, 227 USPQ 964, 966 (CAFC 1985), *Ex parte Edwards* 231

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USPQ 981, 983 (BdPatApp&Int 1986). Thus, in the instant case, the product as claimed can be made by another and materially different process such depositing the conducting layer and ferroelectric layer at high temperatures, or, depositing the conducting layer and the ferroelectric layer at conditions in which the conducting layer and the ferroelectric layer, as deposited, do not have a perovskite phase, and after deposition treating the conducting layer and ferroelectric layer so that a least a portion of each layer has a perovskite phase. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A telephone call was made to Kenton R. Mullins on April 23, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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